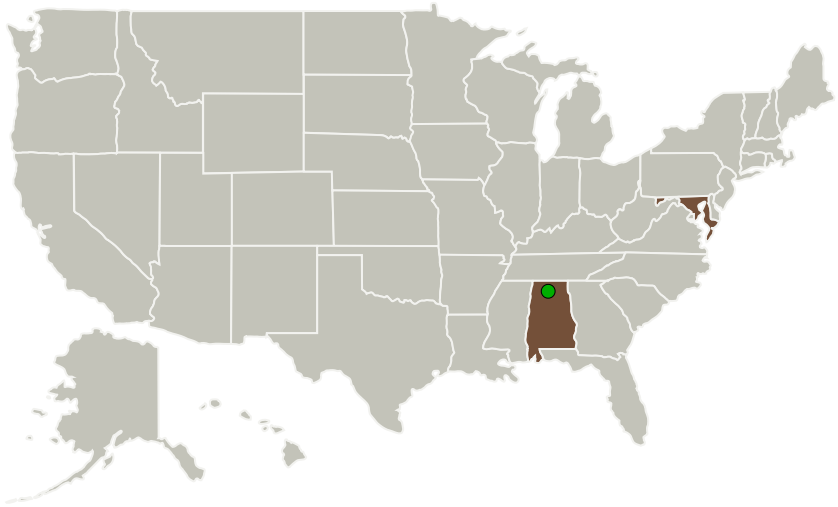
Systems and Services for Real-Time Web Access to NPP Data, Phase II

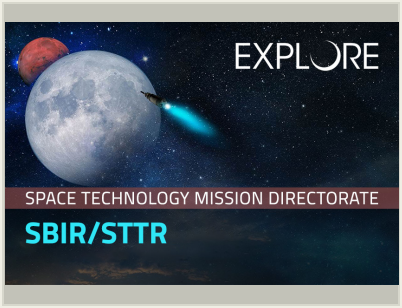
Completed Technology Project (2011 - 2013)

Project Introduction

Global Science & Technology, Inc. (GST) proposes to build a scalable, adaptable, and interoperable information processing and delivery infrastructure that will provide near-real-time access to satellite data from the National Polar-Orbiting Environmental Satellite System (NPOESS) Preparatory Project (NPP), its follow-on the Joint Polar Satellite System (JPSS), and other near-real-time observations to modelers, forecasters, and decision-makers. Thanks to distributed Direct Broadcast facilities, a streamlined processing chain, and a scalable cloud computing environment, we propose to build technology that will reduce the latency in NPP data delivery to end-users from several hours to several minutes. Our proposed activity would serve near-real-time NPP, JPSS, and other data for the area within an antenna's satellite footprint via industry-standard Web-services, so as to maximize the use of these data by a broad set of users.

Primary U.S. Work Locations and Key Partners





Systems and Services for Real-Time Web Access to NPP Data, Phase II

Table of Contents

Systems and Services for Real-Time Web Access to NPP Data, Phase II

Completed Technology Project (2011 - 2013)

Organizations Performing Work	Role	Type	Location
Global Science & Technology, Inc.	Lead Organization	Industry Minority-Owned Business, Small Disadvantaged Business (SDB)	Greenbelt, Maryland
Marshall Space Flight Center(MSFC)	Supporting Organization	NASA Center	Huntsville, Alabama

Primary U.S. Work Locations	
Alabama	Maryland

Project Transitions

June 2011: Project Start

May 2013: Closed out

Closeout Documentation:

- Final Summary Chart*(https://techport.nasa.gov/file/140594)*

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Global Science & Technology, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

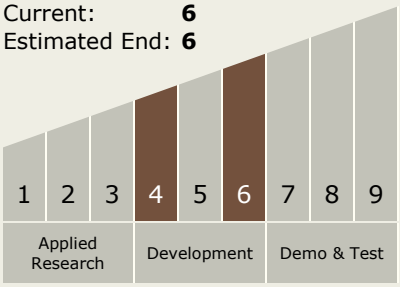
Carlos Torrez

Principal Investigator:

Jack A Kelly

Technology Maturity (TRL)

Start: **4**
Current: **6**
Estimated End: **6**



Systems and Services for Real-Time Web Access to NPP Data, Phase II

Completed Technology Project (2011 - 2013)

Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
  - TX11.4 Information Processing
    - TX11.4.5 Cyber Infrastructure

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System